

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re Application of
Bernd Zäschke et al.
Serial Number 10/530,707
Filed: April 8, 2005
For: Method Producing Rigid Polyurethane Foams By Means Of Graft Polyhydric Alcohols

D E C L A R A T I O N UNDER 37 CFR 1.132

I, Marc Fricke, a citizen of the Federal Republic of Germany and residing at 49090 Osnabrueck, Federal Republic of Germany, declare as follows:

I am a fully trained chemist, having studied chemistry at the University of 33619 Bielefeld, Federal Republic of Germany, from 1994 to 2000.

I received my Doctors degree at the University of Bielefeld in 2004 with summa cum laude.

I joined BASF Polyurethanes GmbH, 49448 Lemfoerde, Federal Republic of Germany, in 2007, since when I have been working in the field of polyurethane research and development.

I am well acquainted with technical English.

In the Declaration regarding the above-mentioned patent application of January 7, 2010 Dr. Emge showed the difference between polyurethane rigid foams according to the above-mentioned patent application compared to polyurethane rigid foams manufactured in absence of graft polyols. The examples showed an improvement in the demoulding thickness of the foams manufactured in accordance to the above-mentioned patent application. The demoulding thickness is an important parameter for the manufacturing of polyurethane foams. It indicates how fast a foam part can be demoulded and therefore how many parts can be produced in a given time. As lower the demoulding thickness as faster a foam part can be demoulded and as more parts can be produced.

A mould of dimensions 40 cm * 70 cm * 90 cm was filled with the reaction mixture according to the table. The foamed parts were removed from the mould after a mould dwell time of 3 min, and their after swelling (demoulding thickness) was determined 24h after removal from the mould.

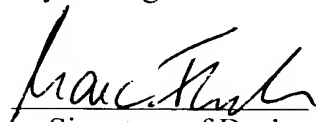
Therefore, an after swelling of about 3,3 mm compared to 4,8 mm in the reference is an improvement of 32%. The manufacturer would be able to decrease the cycle time and consequently, produce more parts in the same time.

In summary, Example 2 and 3 show an improved demoulding thickness (after swelling) compared to the reference without compromising other foam parameters.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information or belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed at 49448 Lemförde, Germany, this

5th day of August 2010


Signature of Declarant